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Adrenergic dependence of the platelet aggregation in rats.

Ganchev T, Negrev N, Ilkova R.

Physiology Department, Higher Medical Institute, Varna.

The paper examines the effect of different adrenergic agents influencing both the neuronal unit of the adrenergic transmitter system and its alpha- and beta-receptor components on the ADP-induced platelet aggregation. A considerable inhibition of the platelet aggregation is found under conditions of post-reserpine adrenergic block (16.06%, p less than 0.001) and blocking of the beta 1-adrenergic receptors with practolol, applied independently (45.06%, p less than 0.001) and prior to the treatment of the rats with dobutamine--beta 1-adrenoreceptor agonist (52.20%, p less than 0.001). The stimulation of these receptors with dobutamine accelerates the platelet aggregation by 41.04% (p less than 0.001). No changes in the platelet aggregation are found after treatment with phenoxybenzamine (nonselective alpha adrenergic blocker) and salbutamol (beta 2-adrenergic agonist). It may be concluded that the ADP-induced platelet aggregation depends to a certain extent on the functional state of the neuronal and beta-adrenoreceptor unit of the adrenergic transmitter system and possibly also on the metabolic processes connected with them.

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